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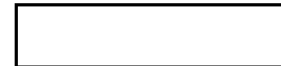


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September 8, 1966

Please Reference:



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U. S. Government



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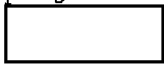
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Gentlemen:

Subject: Contract



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This is the first in a series of monthly progress reports covering the effort expended on Phase II of the 9 1/2 inch  Processor development program.

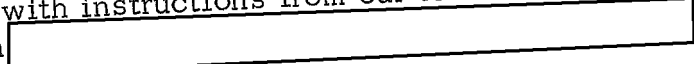
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### General Program

During this first month of Phase II of the contract, we conducted and completed a sensitometric and archival quality evaluation program on the 9 1/2 inch breadboard manufactured under Phase I of the contract.

The objective of this program was to obtain the approximate processing time in each solution for the five specified emulsions. This information is essential to the establishment of the detail design parameters of the 9 1/2 inch prototype processor required by Phase II.

### Test Program Summary

In accordance with instructions from our technical advisor, testing was limited to Film 

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Samples of each of these films were sensitometrically exposed and tray processed under controlled conditions in accordance with film manufacturers'

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recommendations, at 68° F. for 3, 5, 8 and 12 minutes in D19 or D76 developer. The results were plotted and used as a basis of comparison to the results obtained from the same films processed in the breadboard [redacted]

To satisfy the need for a higher energy developer than D19 and D76, a developer based on U.S. Navy Rapid Developer NRD 29 was used at 110° F. for both negative and duplicating films. [redacted] Stop Bath, Fixer and Hypo Eliminator proved to be the most efficient tail end chemistry.

Results

In general, the test program indicates that with the exception of Film [redacted] all of the Film Types tested may be satisfactorily processed in the breadboard configuration at a processing speed of ten (10) fpm. Film [redacted] requires additional fixation and the transport speed must be reduced below 4 fpm to achieve archival quality.

Plans for the Forthcoming Period

Data collected from this preliminary test program has been given [redacted] to enable him to begin the three month design and fabrication phase of the prototype [redacted] Processor program. Monitoring of the implementation of the design criteria will be on a continuing basis. At the end of the fabrication phase, we will establish the operating parameters, including the replenishment systems.

The funds committed or expended from the start of Phase II to the present are approximately [redacted]

If you should have any questions concerning this report, please do not hesitate to contact us.

Sincerely yours,

MCM: lf

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